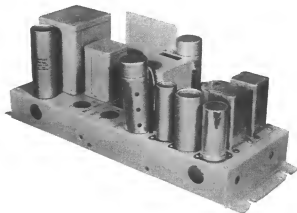


124B AMPLIFIER



GENERAL

The 124B amplifier is a push-pull, two-stage amplifier with a self-contained power supply unit and a plate supply filter. It is designed for use as a monitoring amplifier in the program plant, as a part of a one-way speech or music transmission system, as a line amplifier in short regional program networks for medium quality service or as a temporary or emergency line amplifier on a major network. There are five different input arrangements provided for this amplifier; the one to be used depending on the type of service desired and the maximum input level needed. Each input arrangement is shown on the schematic.

ELECTRICAL CHARACTERISTICS

Gain - - - - - Input No. 1, 67 db; input No. 2, 61 db; input No. 3, 45 db; input No. 4, 45 db; input No. 5, 41 db.

Source Impedance- Input No. 1, 500-700 ohms; input No. 2, 400-1000 ohms; input No. 3, 500-700 ohms; input No. 4, 0-25,000 ohms; input No. 5, 0-1000 ohms.

Internal Input Impedance - Input No. 1, 2500 ohms. Input No. 2, 600 ohms. Input No. 3, 11,000 ohms. Input No. 4, 11,000 ohms. Input No. 5, 600 ohms.

Internal Output Impedance - 3/4 of nominal load impedance or 600 ohms when building-out resistors are in circuit.

Load Impedance - 1.75, 7.5, 16, 30, 150 or 600 ohms. Also 70-volt loudspeaker distribution line. See Output Connections Table on schematic.

Output Level - - +41 dbm (12 watts) with less than 5% total harmonic distortion from 50 to 5000 cycles, and +43 dbm (20 watts) with 5% total harmonic distortion at 400 cycles with 600-ohm load.

Output Noise - -37 dbm (unweighted).

Frequency Response - - +1 db, 50 to 15,000 cycles.

Gain Control - -38 db in 2 db steps.

Power Supply - - 105 to 125 volts, 50-60 cycles, 1.1 amperes, 105 watts when used with 12-watt output connection. 105 to 125 volts, 50-60 cycles, 1.25 amperes, 125 watts when used with 20-watt output connection.

EQUIPMENT CHARACTERISTICS

Dimensions - - - 19" long, 7" high, 7-3/8" deep including controls.

Weight - - - - - Approximately 20 pounds.

Finish - - - - - Chassis: aluminum lacquer.
Front and edge of mat: black enamel, dark aluminum gray, gray or blue-gray.

Mounting - - - - - Relay rack, shelf or apparatus cabinet.

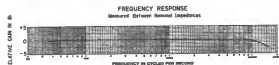
ELECTRON TUBES

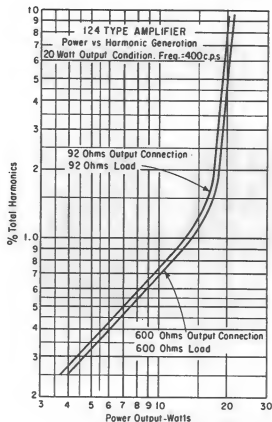
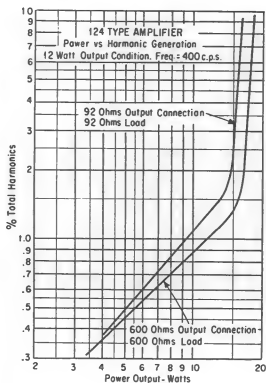
(These tubes are not supplied with the amplifier and must be ordered separately.)

	W.E. Co.	Commercial
2- - - - -	348A or	6J7 or 6J7G
2- - - - -	350B or	6L6 or 6L6G
1- - - - -	274B or	5Y4 or 5Y4G

REFERENCES

ESX-675954 - - - - - Assembly and Stock Lists.
ESX-676167 - - - - - Wiring Diagram.
ESXX-676164 - - - - - Schematic.
BSP 024-104-100 - - 124-Type Amplifiers.
BSP 024-104-501 - - 103 and 124-Type Amplifiers.





124 B AMPLIFIER

